

Figure 1A

Hum. anti-CD3 VI. nt

GACATCCAGATGACCCAGTCTCCATCCTGGCATCTGTAGGAGACAGACTTGCATCTGGTATCTGAATTGGTATCAGGAGACACCAGGGAAAGCCCC
CTTGAGAGCAAGTTCAAGCGTAAGCTACATGAATTGGTATCAGGAGACACCAGGGAAAGCCCC
TAAGAGATGGATCTATGACACATCCAAGTGGCTTCTGGGGTCCCATCAAGGTTCAGTGGCAGT
GGATCTGGACAGATTACACTTCAACCATTAGCAGTCTGCAACCTGAAGATAATTGCAAACCTACT
ACTGTCAACAGTGGAGTAGTAACCCCTCACTTTGCCAGGGACCAAGCTGCAGATCACC

Hum. anti-CD3 VL AA

DIGMTQSPSSLSASVGDRVTITCRASSSVSYMNNWYQQTPGKAPKRWIVYDTTSKVASGVPSRFGSGS
GSQGTDTTEITSSLOPEDIAIATYCOQWSSNPLTFGGTQLQIT

Hum. anti-CD3 VH nt

CAGGTGCAGCTGGTGCAGTCTGGGAGGGTGGCTCCAGCCTGGGAGGTCCAGGAA
GTAAGTCTCTGGATAACACCTTCACTAGGTATACGATGCCACTGGTCCGGCTCCAGGGAA
GGGGCTGGAGTGGATTGATACTAAATCCTAGCCGTGGTTACTAATTATAATCAGAAGGTG
AAGGACCGATTCAACCATTCCAGAGACAACCTCCAGAACACGGCCTTCTGC
TGAGACCCCAGGACACGGGTGTGTATTCTGTGCCAGATATTGATCATTA
CTACTGGGCCAGGGCACCCCCGGTCACCGTCTCCCTCA

Figure 1A (cont.)**Hum. anti-CD3 VH AA**

QVQLVQSGGGVVQPGRSRLSCKSSSGYTFTRYTMHWVRQAPGKGLEWIGYINPSRGYTNYNQKV
KDRFTISRDNSKINTAFLQMDSSLRPEDTGVYFCARYYDDHYCLDYWGQGTPVTVSS

Figure 1B

TGTACACTCCGATATCCAGCTGACCCAGTCTCCAGCTTGGCTTGGTGTGATTATGATGGTATACTTGAACCTGGTCTCTAGGGCAGAGGGCCACCCAT
CTCCCTGCCAAGGGCCAGCCAAGTGTGATTATGATGGTATACTTGAACCTGGTCTCTAGGGTATACTTGAACAGATTCAGG
ACAGCCCACCAAACTCCCTCATCTATGATGCCATCCAAATCTAGTTCTGGATCCACCCAGGTTAGTGGCAG
TGGGTCTGGGACAGACTTCACCCCTCAACATCCATCCTGTGGAGAACGGTGGATGCTGCAACCTATCACTGTCA
GCAAAGTACTGAGGATCCCGTGGAGGGACGTTGGACGGTCCAGGTGGTGGTTCTCAGGTGCAGCAGTGGCTGGGGCTGG
CGGGGGGGCTCCGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG
GTCCTCAGTGAAGATTCCCTGCCAAGGGCTTCTGGCTATGCCATTAGCTACTGGATGAACGGTGAAGCA
GAGGCCCTGGACAGGGTCTTGAGTGGATGGAGATGGAGATGGAGATGGAGATGGAGATGGAGATGGAG
GTTCAAGGGTAAGCCACTCTGACTGCAGACGAATCCCTCCAGCACAGCCTACATGCCAAGTCAAGCAGCCTAGC
ATCTGAGGACTCTGGGTCTATTCTGTGCAAGAACGGGAGACTACGACGGTAGGCCGTATTACTATGCTAT
GGACTACTGGGCCAAGGGACCACGGTCACCGGTCTCCTCCGGAGGGTGGGGCTCCAGGTGGCTGG
GTCTGGGGAGGGCGTGGTCCAGGCTGGAGGTCCAGGCTGGGAGGTGGCTGAGACTCTCCTGTAAGTCTTCTGGATAACCTTCAC
TAGGTATACTGCACTGGTCCGGCCAGGGTGGGAGGTGGGAGGTGGGAGGTGGGAGGTGGGAGGTGGGAGGTGGGAGGTGGGAGGTGGGAG
CCGTGGTTATACTAATTAAATCAGAAGGGATTCAACCATTCTCCAGAGAACACTCCAAGAAC
GGCCTTCTGCAAAATGGACAGCCCTGAGACCCGGAGCACCGGTGTGTGTTCTGTGGAGATATTATGATGA
TCATTACTGCCCTTGACTATTGGGCCAGGGCAGGGCAGGGTGGAGTCCAGATGCCAGTCCAGTCCAGTCC
TTCTGGTGGAAAGTGGAGGTCAAGGTGGGAGGTGGGAGGTGGGAGGTGGGAGGTGGGAGGTGGGAGGTGGGAG
ATCTGTAGGAGACAGAGTCACCATCACTTCAAGCAGTGGGATCTGGGCTTCTGGGTCCCATCCCTGTCTGC
GACACCAGGGAAAGCCCCCTAAGAGATGGGATCTGACACATCCAAAGTGGGCTTCTGGGTCCCATCAAGGTT
CACTGGCAGTGGGATCTGGGACAGATTACACTTCACCATCAGCAGTCTGCAACCTGAAGATATGCAACTTA
CTACTGTCAACAGTGGAGTAGTAAACCCTCACTTTGCCAGGGACCAAGCTGCAGATCACCC

Figure 1B (cont.)

DIGLTQSPASLAVSLGQRATISCKASQSVVDYDGDSYLNWYQQIPGQPPKLLIYDASNLVSGIPPRFSGSGSG
TDFTLNIHPVEKVDAATYHCQQSTEDPWTFFGGTKEIKGGGSGGGSQVQLQQSGAELVRPGSSV
KISCKASGYAFSSYWMNWVKQRPGQGLEWIGQIWPGDGTNYNGKEFKGKATITADESSSTAYMQLSSIASED
SAVYFCARRETTVGRYYAMDYWQGTTVTVSSGGGSQVQLVQSGGGVVQPGRSLLRLSCKSSGYTFTTRYT
MHWVRQAPGKGLEWIGYINPSRGYTNYNQKVKDRTISRDN SKNTAFLQMDSLRPEDTIGVYFCARYYDDHYC
LDYWGQGTPTVSSVEGGSSGGSSGGSSGQVDDIQMTQSPSSLASAVGDRVTITCRASSSVSYMNNPLTFGQGTTKLQIT
KAPKRWIYDTTSKVA SGVPSSRFSGSGSGTDDYTFITISSLQPEDIA TYYCQQWSSNPLTFGQGTTKLQIT

Figure 1C

TGTACACTCCGAGCTCGTGATGACACAGTCTCCCATCCTGGACTGTGACAGCAGGAGAAGGGTCACAT
GAGCTGCAAGTCCAGTCAGACTGTTAACACTGGAAATCAAAGAACATGACTTGCCTGGTACCTGGTACCGAGAA
ACCAGGGCAGGCCCTCCTAAACTGTTGATCTACTGGCATCCACTAGGGAAATCTGGGGTCCCTGATCGCTTCAC
AGGCAGTGGATCTGAACAGATTCACTCACCACATCAGCAGTGTGCAGGCTGAAGACCTGGCAAGTTATTAA
CTGTCAAGAATGATTATAGTTATCCGCTCACGTTCGGTGGTGGTGGTTCTGAGGTGGCTGGAGCTGCTGGTGGT
TTCTGGGGGGCTCCGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
AAGGGCTGGGACTTCAGTGAAGATACTGGATACGCCCTCAGTGGCTTCACTAACATGGCTAGGTG
GGTAAGCAGGGCCTGGACATGGACTTGAGTGGATTGGAGATAATTTCCTGGAAGTGGTAATATCCACTA
CAATGAGAAGTCAAGGGCAAAAGCACACTGACAGAACAAATCTCGAGCACAGCCTATATGGACT
TAGCCCTGACATTGGGACTCTGCTGTCTATTCTGGTGGCTTCCGGAGGTGGTGGCTCCAGGTGGCAGCTGGTGG
CTGGGCCAAGGGACCACGGTCACCGTGGCTGGGAGCTGGCTGGGAGGCTGGGAGGCTGGGAGGCTGG
GGGAGGGTGGTCCAGCCTGGGAGGCTGGCTGGGAGGCTGGGAGGCTGGGAGGCTGGGAGGCTGG
TACGATGCACTGGGTCCGGCCAGGGCAGGGTGAAGGTTCAAGGTTGGGATATAAAATCCCTAGCCGTGG
TTATACTAAATTATAATCAGAAGGTGAAGGCTGGGAGGACACGGGACAGGGTGTGTATTCTGTGGAGATAATTATGAT
TCTGCACATTGGACAGCCCTGAGACCCGGGACAGGGCAGGGCACCCCCGGTCACCGTCTCAGTCGAAGGGTGG
CTGCCTGACTATTGGGGCAGGGCACCCCCGGTCACCGTCTCAGTCGAAGGGTGGGAAGTGGAGGTTCTGG
TGGAAAGTGGAGGTTCAGGTGGAGTGGACGACATCCAGATGACCCAGTCCCATCCTCCCTGGTCTGCATCTGT
AGGAGACAGAGTCACCATCACTGCAGAGCAAGTTCAAGCGTAAGCTACATGAATTGGTATCAGGAGACACC
CAGTGGATCTGGACAGATTAAGAGATGGATCTATGACACATCCAAAGTGGCTTCTGGGGTCCCATTCAAGGTTCA
TAAACAGTGGAGTAGTAACCCCTCACTTTGGCCAGGGACCAAGCTGGCAGATCACC

Figure 1C (cont.)

ELVMTQSPSSLTVTAGEKVMTSSQSLLNSGNQKNYLTWYQQQKPGQPPKILLIYWA
STRESGVPDRTTGSG
SGTDFTLTISVQAEDLAVYYCQNDYSYPLTFGAGTKLEIKGGGGGGGGSEVQ
LLEQSGAELIVRPG
TSVKISCKASGYAFTNYWLGVVKQRPGHGLEWIGDIFPGSGNIHYNEKF
KGKATLTADKSSTAYMQLSSLT
FEDSAVYFCARLRNWDEPMMDYWQGTTVTVSSGGGSQVQLVQSGGGV
WVRQAPGKGLEWIGYINPSRGYTNYNQKVKDRTTISRDNSKNTAFLQ
MDSLRLPEDIYGVYFCARYYDDHYCLD
YWGQGTPVTVSSVEGGSSGGSSGGSGVDDIQMTQSPSSLSASVGDRV
TITCRASSSVSYMNVWYQQTPGKA
PKRWIYDTSKVASGVPSRFSGGSGSTDYTFTISSLQPEDIATYYC
QQWSSNPLTFGQGTKLQIT

7/15**Figure 1D**

GAGCTCGTCATGACCCAGTCTCCATCTTGTGCATCTCCATTAGCAAATTAGCCTGGTATCAAGAGAAACCTGGAAACCATTACTATTATTGCAGG
GCAAGTAAGAGCATTAGCAAATTAGCCTGGTATCAAGAGAAACCTGGAAACCATTACTATTAGCCTGGTATCAAGAGAAACCTGGAAACCATTACTATTGCAGG
TACTCTGGATCCACTTTGCAATTCTGGAAATTCCATCAAGGTTCAAGGCTTGGAAGAATTGGCAATGTGATTACTGTCAACAGCATAATGAATATCCGGTAC
CTCACCATCAGTAGGCCCTGGAGCCTGAAGAATTGGCAATGTGATTACTGTCAACAGCATAATGAATATCCGGTAC
ACGTTCTGGAGGGGGACCAAGCTTGAAGATCAAGGTGGTGAAGAATTGGCAATGTGATTACTGTCAACAGCATAATGAATATCCGGTAC
GGTTCTGAGGGTGCAGCTGCTCGAGCAGTCTGGAGCTGAGCTGGTGAAGAACCCTGGGGCTCAGTGAAGATAATCC
TGCAGGGCTTCTGGATAACGCCCTCACTAACACTGGCTAGGGTGGTAATACTCACTACAATGAAGAGGTTCAAGGGCAAAGGCCACA
GAGTGGATTGGAGATCTTCCCTGGAAAGTGGTAATACTCACTACAATGAAGAGGTTCAAGGGCAAAGGCCACA
CTGACTGCAAGACAATCCCTGAGCACAGGCCTTATGGCAGCTCAGTAGGCCCTGACATCTGAGGACTCTGCTGTC
TATTCTGTCAGGATTGGGAACCTGGGACGAGGCTATGGACTACTGGGCAAGGGACACGGTCAACGGTC
TCCCTCGGGAGGTGGATCCCGGGTGCAGCTGGTGCAGTCTGGGAGGGGGCTGGTCCAGGCTGGGAGGTCC
CTGAGACTCTCCTGTAAGTCTGGATAACCCCTCACTAGGTATACTGAGTGCACCTGGGCTGGGAGGTCTCCA
GGGAAGGGGGCTGGAGTGGATTGGATAACATAATCCTAGCCGGTGGTTACTAAATTATAATCAGAAGGGTGAAG
GACCGATTACCATCTCCAGAGACAACCTCAAGAGACAACACGGCCTTCTGCAAATGGACAGCCTGAGACCCGAG
GACACGGGGTGTGTAATTCTGTCAGTGGAGATATTATGATCATTACTGCCATTGACTATTGGGGCCAGGGCACC
CCGGTCACCGTCTCCTCAGTCGAAGGGTGGAAAGTGGAGGTCTGGTGGAAAGTGGAGGTCAAGGTGGAGTGGAC
GACATCCAGATGACCCAGTCTCCCATCCTCCCTGTCAGTGGAGACAGAGTCACCATCACTTGCAGA
GCAAGTTCAAGCGTAAGCTACATGAATTGGTATCAGCAGACACCAGGGAAAGCCCCTAAGAGATGGATCTAT
GACACATCCAAGTGGTCCCATCAAGGTTCACTGCAACTTACTGCAAGATATTGCAACACTGGAGTAGTAAACAGTGGAGTAGTCAACAGTGGCAGTCACTTC
ACCATCAGCAGTCTGCAACCTGAAGATATTGCAACACTGGAGTAGTAAACAGTGGAGTAGTCAACAGTGGCAGTCACTTC
TTTGGCCAGGGACCAAGCTGCAGATCACC

Figure 1D (cont.)

ELVMTQSPSYLAASPGETITINCRASKSISKYLAWSYQEKPGBTNKLILYSGSTLQSGIIPSRFSGGSGTDFLTISSEPEDFAMYCQQHNEYPYTFGGGTKLEIKGGGGSGGGSEVQLLEQSGAELVKPGASVKISCKASGYAFTNYWLGWVKQRPGHGLEWIGDLEPGSGNTHYNERFRGKATLTADKSSSTAFCQLSSLTSEDSAVYFCARLRLRNWDEAMDYWGQGTTVTYSSGGGSQVQLVQSGGGVVPGRSLRSLCKSSGYTFTRYTMHWVRQAPGKGLEWIGYINPSRGYTNYNOKVKDRFTISRDN SKNTAFLQMDSLRPEDTGVYFCARYYDDHYCLDYWGQGTPVTVSSVEGGSGGGSGGGSGVDDIQMTQSPSSLSASVGDRVTITCRASSSVSYMNWYQQTPGKAPKRWIYDTSKVASGVPSRFSGGSGSGTDTFTISSIQPEDIATYYCQQWSSSNPLTFGGTQLQIT

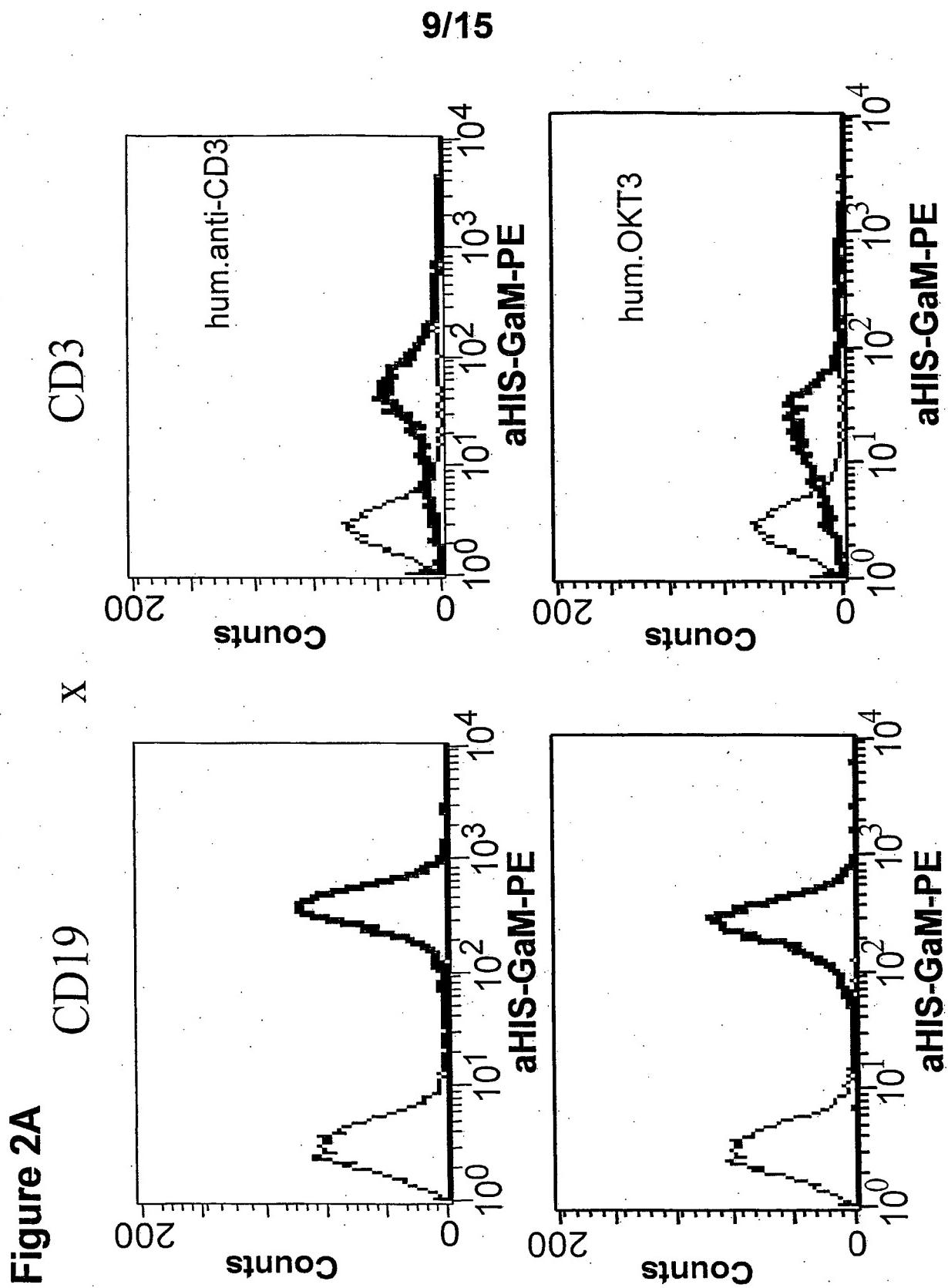


Figure 2A

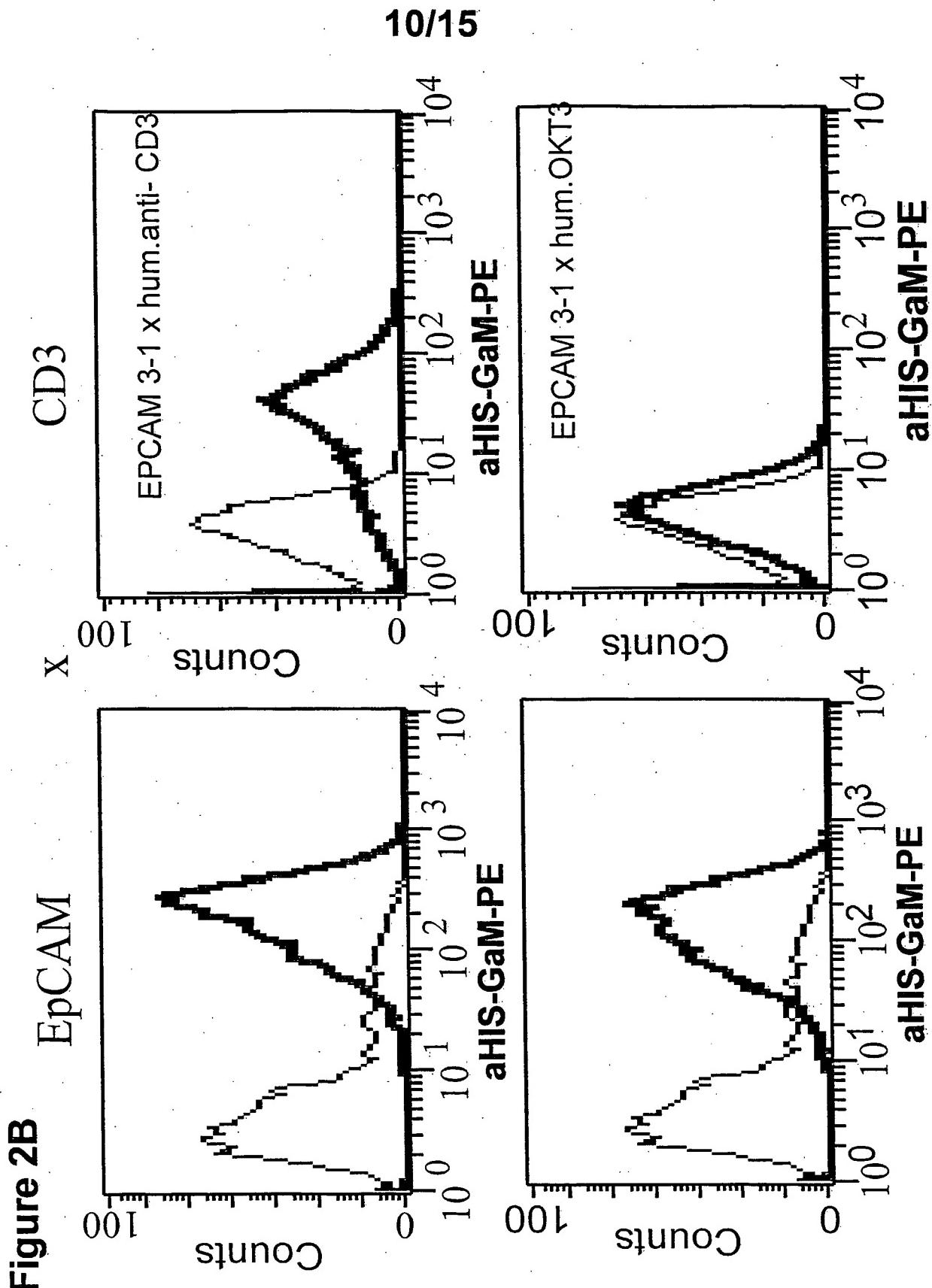
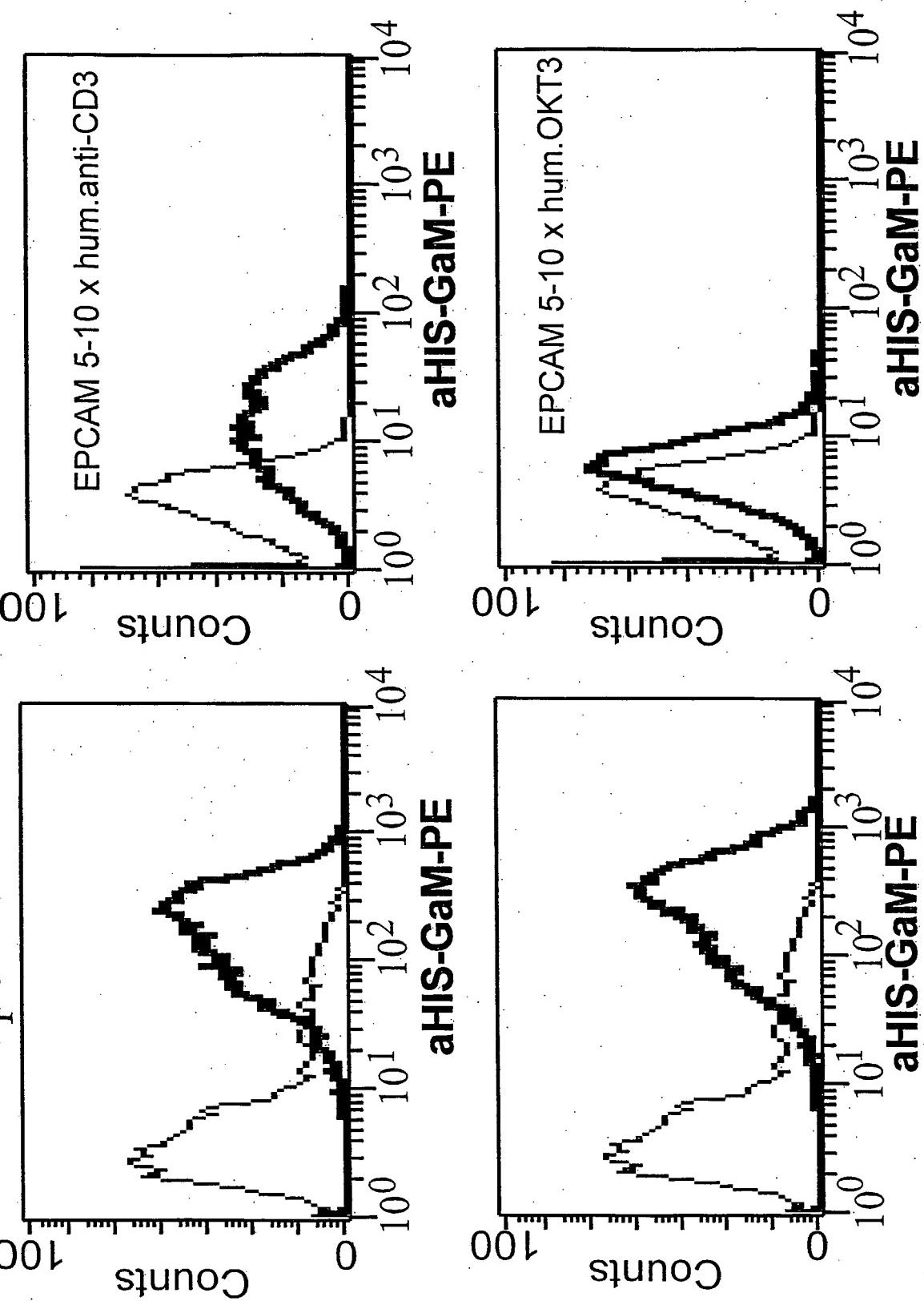


Figure 2B

11/15

Figure 2C

12/15

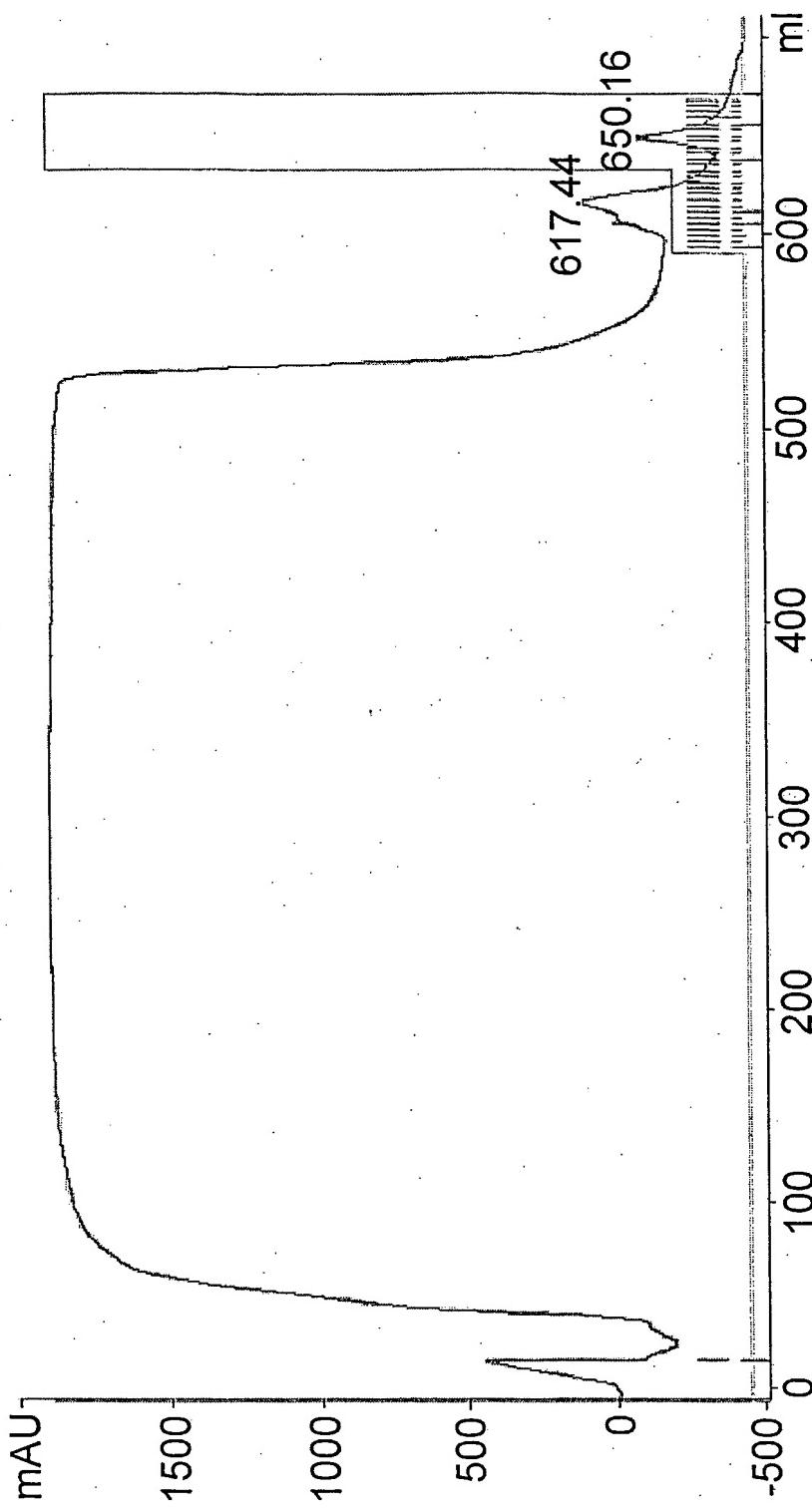
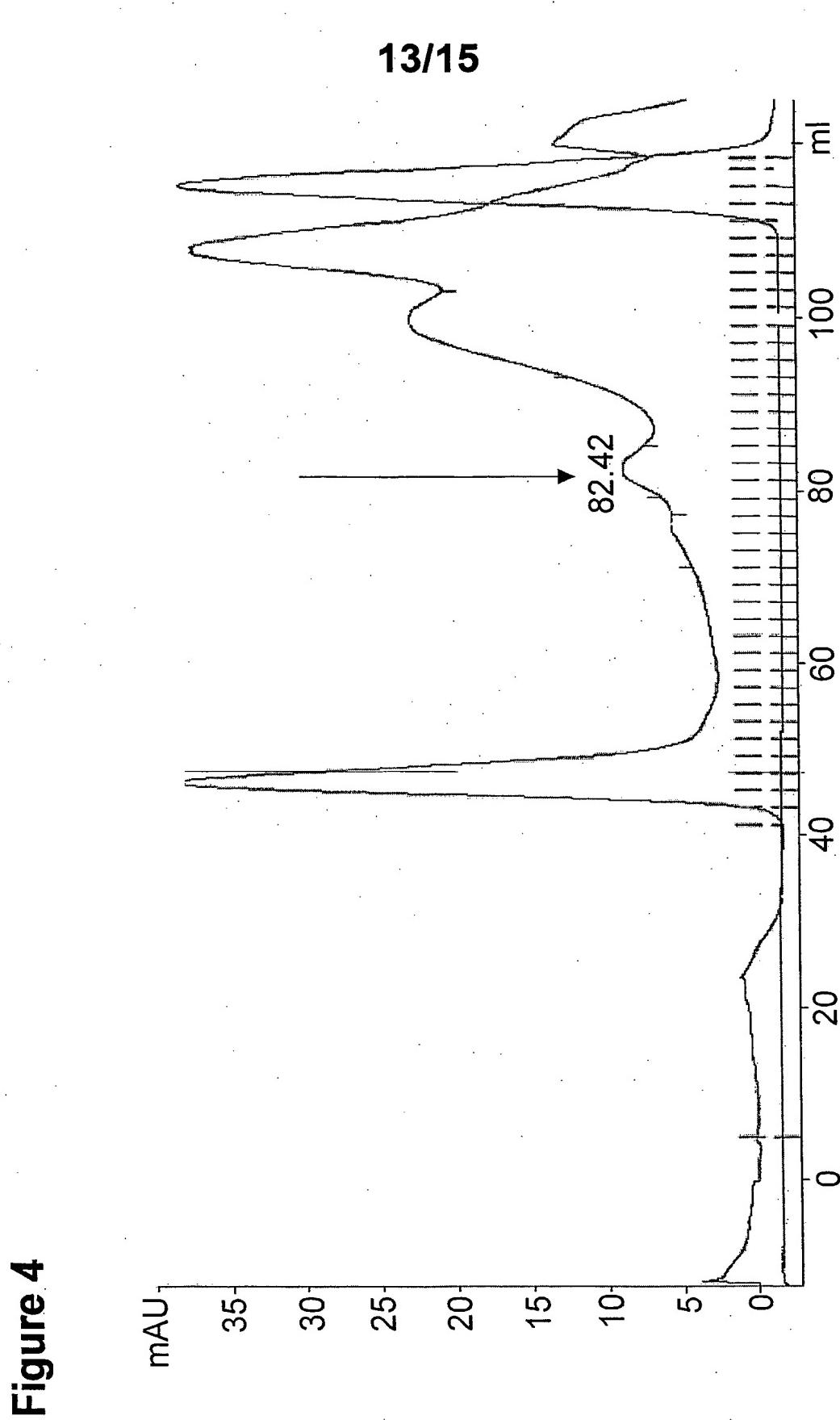
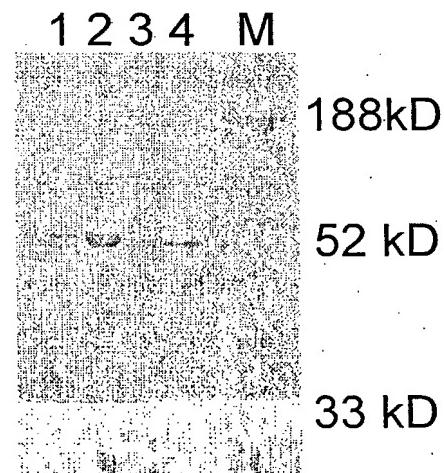
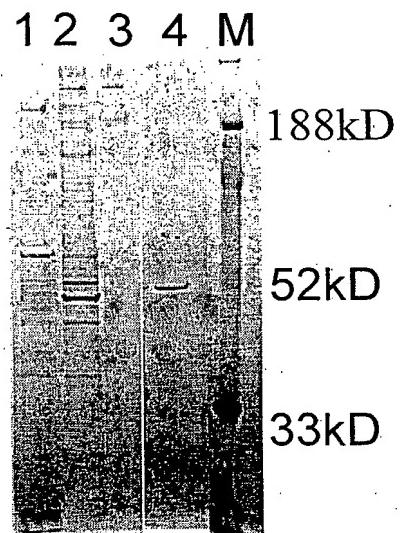


Figure 3



14/15**Figure 5**

15/15**Figure 6**